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NASA Procedural Requirements

COMPLIANCE IS MANDATORY

NPR 8820.2E

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Subject: Facility Project Implementation Guide

Responsible Office: Facilities Engineering and Real Property Division

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Preface

P.1 PURPOSE

a. This Facility Project Implementation Guide provides a ready reference to pertinent policy and guidance for management of facility planning, budgeting, design, construction, and activation. This revision incorporates NASA's current management structure and budget cycle. It applies to all construction and renovation projects occurring on NASA-controlled real property. The facility system safety process information was taken from NASA STD 8719.9, Facility System Safety Guidebook. Preproject planning, sustainable design required by Executive Order (EO) 13123, Greening the Government Through Efficient Energy Management, and building commissioning are included in this revision for facility project development and management. The Reliability Centered Building and Equipment Acceptance Guide is incorporated for use in acceptance of facilities construction. The Project Definition Rating Index (PDRI) tool, as developed by the Construction Industry Institute (CII), has also been added. This tool is used to evaluate and measure the level of scope definition of a proposed project.

b. This guide contains paraphrases of the Federal Acquisition Regulation (FAR) and the NASA FAR Supplement for the users' information only. Before relying on the paraphrases for authority, users should consult their contracting officers and the regulations. In the event of conflict between this guide and the FAR or the NASA FAR Supplement, the latter regulations have precedence and users must follow them.

P.2. APPLICABILITY

This NASA Procedures and Requirements (NPR) is applicable to NASA Headquarters, NASA Centers, including Component Facilities, and the Jet Propulsion Laboratory to the extent specified in the contract.

P.3. AUTHORITY

a. 42 U.S.C. 2473 (c)(1), Section 203 (c)(1) of the National Aeronautics and Space Act of 1958, as amended (<http://www1.umn.edu/scitech/nasa1958.htm>).

b. NPD 8820.2, Design and Construction of Facilities.

P.4. REFERENCES

- a. Executive Order 12114, Environmental Effects Abroad of Major Federal Actions.
- b. Executive Order 12372, Intergovernmental Review of Federal Programs, 3 CFR (1982 Compilation), as amended by Executive Order 12416, 3 CFR (1983 Compilation).
- c. Executive Order 12196, Occupational Safety and Health Programs for Federal Employees, as amended.
- d. Executive Order 12699, Seismic Safety of Federal and Federally Assisted or Regulated New Buildings.

- e. Executive Order 12941, Seismic Safety of Existing Federally Owned or Leased Buildings.
- f. Executive Order 13123, Greening of Government Through Efficient Energy Management.
- g. 10 CFR Part 434, Energy Code for New Federal Commercial and Multi-Family High Rise Residential Buildings.
- h. 10 CFR Part 436, Federal Energy Management and Planning Programs.
- i. 14 CFR Part 1216, Environmental Quality.
- j. NPR 1000.2, NASA Strategic Management Handbook.
- k. NPR 1441.1, NASA Records Retention Schedules.
- l. NPR 4200.1, NASA Equipment Management Manual.
- m. NPR 7120.5, NASA Program and Project Management Processes and Requirements.
- n. NPD 7330.1, Approval Authorities for Facility Projects.
- o. NPD 8010.2, Use of the Metric System of Measurement in NASA Programs.
- p. NPR 8570.1, Energy Efficiency and Water Conservation Technologies and Practices.
- q. NPR 8580.1, Procedures and Guidelines for Implementing The National Environmental Policy Act and Executive Order 12114.
- r. NPD 8710.5, NASA Safety Policy for Pressure Vessel and Pressurized System.
- s. NPR 8715.3, NASA Safety Manual.
- t. NPD 8800.14, Policy for Real Property Management.
- u. NPR 8800.15, Real Estate Management Program Implementation Manual.
- v. NPD 8820.2, Design and Construction of Facilities.
- w. NPR 8830.1, Affirmative Procurement Plan for Environmentally Preferable Products.
- x. NPR 8831.2, NASA Facilities Maintenance Management.
- y. NPD 9050.6, NASA Exchange Activities.
- z. NASA Partnering Desk Reference.
- aa. NASA Reliability Centered Building and Equipment Acceptance Guide.
- bb. NASA Project Definition Rating Index (PDRI) Manual.
- cc. Office of Management and Budget (OMB) Circular A-131, Value Engineering.
- dd. Office of Management and Budget (OMB) Circular No. A-94, Guidelines and Discount Rates for Benefit-Cost Analysis of Federal Programs.
- ee. Federal Acquisition Regulations (FAR).
- ff. NASA FAR Supplement (NFS).
- gg. NASA-STD 8719.7, Facility System Safety Guidebook.
- hh. NASA-STD 8719.9, Safety Standard for Lifting Devices and Equipment.
- ii. NASA-STD 8719.11, Safety Standard for Fire Protection.
- jj. NSS/WS 1740.10, NASA Safety Standard for Underwater Facility and Non-Open Water Operation.

P.5. CANCELLATION

This revision cancels NPR 8820.2C, dated April 28, 1999. (NPR8820.2D was submitted for coordination then withdrawn and never approved or issued, but the number could not be re-used.)

**/s/ Jeffrey E. Sutton
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Management Systems**

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